

## CLAIMS

I/we claim:

1. A computer interface extension configuration comprising:

5                   a host having a motherboard with a first connector that allows  
motherboard signals to be shared internal to the host, the motherboard also having at least a  
second connector separate from the first connector that supports communications with the host;

                  an extension transmitter card disposed within the host and being  
electrically coupled to the motherboard of the host via at least the first connector, the extension  
10   transmitter card having an extension controller; and

                  an extension receiver coupled to a plurality of user interface devices, the  
extension receiver being extensibly connected to the extension transmitter card and that at least  
receives data transmissions from the extension transmitter card of the host to thereby provide  
the data transmissions to one or more of the plurality of user interface devices.

15               2. The computer interface extension configuration of claim 1 wherein the  
plurality of user interface devices comprise a keyboard, a mouse, a video monitor, a speaker, a  
serial link, a USB link, a power button, and a microphone.

                  3. The computer interface extension configuration of claim 1 wherein the  
extension receiver is extensibly connected to the extension transmitter via a fiber optic cable.

20               4. The computer interface extension configuration of claim 1 wherein the  
extension receiver is extensibly connected to the extension transmitter via a cable compatible  
with any version of category five or above type cables.

                  5. The computer interface extension configuration of claim 1 wherein the  
plurality of user interface devices comprise a USB interface.

6. The computer interface extension configuration of claim 1 wherein the extension transmitter card disposed within the host is electrically coupled to the first connector of the motherboard of the host via a ribbon cable connector disposed between the motherboard and the extension transmitter card.

5 7. The computer interface extension configuration of claim 1 wherein the extension transmitter card disposed within the host is electrically coupled to the second connector of the motherboard of the host via one of a PCI, PCI-X, or AGP interface with the extension transmitter card.

8. A computer interface extension transmitter comprising:

10 a host computer system having a motherboard, a second connector disposed on the motherboard for electrically coupling an add-in card to the motherboard, and a first connector disposed on the motherboard separately from the second connector, the first connector for transmitting signals to be shared between the add-in card and the motherboard, the signals being shared internal to the host;

15 an extension transmitter card disposed within the host and being electrically coupled to the second connector of the motherboard, the extension transmitter card having a motherboard header that is accessible separately from the electrical coupling of the extension transmitter card and the second connector of the host;

20 a cable internal to the host electrically coupling the motherboard header of the extension transmitter card and the first connector of the motherboard; and

an external cable electrically coupling the extension transmitter card to an extension receiver, the extension receiver being coupled to a plurality of user interface devices and that receives data transmissions from the extension transmitter card of the host to thereby provide data transmissions to one or more of the plurality of user interface devices.

9. The computer interface extension transmitter of claim 8 wherein the second connector disposed on the motherboard for electrically coupling the add-in card to the motherboard operates according to a communication standard taken from the group consisting of a PCI interface, a PCI-X interface, and an AGP interface.

5           10. The computer interface extension transmitter of claim 8 wherein the first connector disposed on the motherboard separately from the first connector comprises audio communications with the extension receiver that pass through the extension transmitter card.

10           11. The computer interface extension transmitter of claim 8 wherein the first connector disposed on the motherboard separately from the second connector comprises power control communications with the extension receiver that pass through the extension transmitter card and provide control over power signals to the host.

15           12. The computer interface extension transmitter of claim 8 wherein the first connector disposed on the motherboard separately from the second connector comprises analog video communications with the extension receiver that pass through the extension transmitter card.

            13. The computer interface extension transmitter of claim 8 wherein the first connector disposed on the motherboard separately from the second connector comprises digital video communications with the extension receiver that pass through the extension transmitter card.

20           14. The computer interface extension transmitter of claim 8 wherein the extension transmitter card includes a graphic controller.

            15. The computer interface extension transmitter of claim 14 wherein the graphic controller of the extension transmitter card is PCI compatible.

16. The computer interface extension transmitter of claim 14 wherein the graphic controller of the extension transmitter card is AGP compatible.

17. A method for extending computer interface communications between a host computer and a plurality of computer interface devices comprising:

5 electrically connecting an extension transmitter card to a slot in the host computer system;

enumerating the extension transmitter card with the host computer system such that the extension transmitter card is recognized by the host;

10 electrically connecting a motherboard header of the extension transmitter card to a connector on the host that is separate from the slot in the host with which the extension transmitter card is electrically connected; and

transmitting communications from the extension transmitter card to an extension receiver to complete operations with at least one of the plurality of computer interface devices.

15 18. The method of claim 17 wherein said transmitting communications from the extension transmitter card comprises transmitting graphics communications.

19. The method of claim 17 wherein said transmitting communications from the extension transmitter card comprises transmitting serial communications.